

Data Access in Client and Middle-Tier Programming

How to: Read Excel Data into a Dataset (Visual Basic)

See Also [Example](#)

Language Filter: Visual Basic

This example reads data from an Excel spreadsheet into a dataset.

Example

Visual Basic

 Copy Code

```
Dim cn As System.Data.OleDb.OleDbConnection
Dim cmd As System.Data.OleDb.OleDbDataAdapter
Dim ds As New System.Data DataSet()

cn = New System.Data.OleDb.OleDbConnection("provider=Microsoft.Jet.OLEDB.4.0;" & _
    "data source=C:\myData.XLS;Extended Properties=Excel 8.0;")

' Select the data from Sheet1 of the workbook.
cmd = New System.Data.OleDb.OleDbDataAdapter("select * from [Sheet1$]", cn)

cn.Open()
cmd.Fill(ds)
cn.Close()
```

Compiling the Code

This example requires:

- A project reference to System.data.dll.
- Access to the members of the `System.Data` namespace. Add an **Imports** statement if you are not fully qualifying member names in your code. For more information, see [Imports Statement](#).
- A valid data source path to your Excel spreadsheet.
- A valid Excel version for the Extended Properties value.

For Microsoft Excel 8.0 (97), 9.0 (2000) and 10.0 (2002) workbooks, use Excel 8.0.

For Microsoft Excel 5.0 and 7.0 (95) workbooks, use Excel 5.0.

For Microsoft Excel 5.0 workbooks, use Excel 4.0.

For Microsoft Excel 3.0 workbooks, use Excel 3.0.

- A valid reference to a table (or range) in the Excel workbook.

To reference the complete used range of a worksheet, specify the sheet name followed by a dollar sign. For example:

 Copy Code

```
select * from [Sheet1$]
```

To reference a specific range of addresses on a worksheet, specify the sheet name followed by a dollar sign and the range. For example:

 Copy Code

```
select * from [Sheet1$A1:B10]
```

To reference a named range, use the name of the range. For example:

 Copy Code

```
select * from [MyNamedRange]
```

Robust Programming

The data access (the call to the **Fill** method) should take place within a **Try** block, and the associated **Finally** block should close the data connection (with the **Close** method). This structure promptly closes the database connection when an exception occurs.

The following condition may cause an exception:

- The underlying data provider for the OLE DB data source throws the error or warning.
[\(OleDbException Class\)](#)

Security

The application must have sufficient permissions to access the Excel file.

See Also

Tasks

[How to: Read Access Data into a Dataset \(Visual Basic\)](#)
[How to: Read SQL Data into a Dataset \(Visual Basic\)](#)

Reference

[DataSet Class](#)
[OleDbDataAdapter Class](#)
[OleDbConnection Class](#)
[Try...Catch...Finally Statements](#)

Other Resources

[Preparing Your Application to Receive Data](#)
[Editing Data in Your Application](#)

To make a suggestion or report a bug about Help or another feature of this product, go to the [feedback site](#).

Data Access in Client and Middle-Tier Programming

How to: Read Access Data into a Dataset (Visual Basic)

See Also [Example](#)

Language Filter: Visual Basic

This example reads data from the Access Northwind database into a [DataSet](#).

Example

Visual Basic

 Copy Code

```
Dim cn As System.Data.OleDb.OleDbConnection
Dim cmd As System.Data.OleDb.OleDbDataAdapter
Dim ds As New System.Data DataSet()

cn = New System.Data.OleDb.OleDbConnection("provider=Microsoft.Jet.OLEDB.4.0;" & _
    "data source=C:\Northwind.MDB")

cmd = New System.Data.OleDb.OleDbDataAdapter("select * from Categories", cn)

cn.Open()
cmd.Fill(ds)
cn.Close()
```

This code example is also available as an IntelliSense code snippet. In the code snippet picker, it is located in **Data - Designer features and ADO.NET**. For more information, see [How to: Insert Snippets Into Your Code \(Visual Basic\)](#).

Compiling the Code

This example requires:

- A project reference to System.data.dll.
- Access to the members of the System.Data namespace. Add an **Imports** statement if you are not fully qualifying member names in your code. For more information, see [Imports Statement](#).
- A valid data source path to your Access database. By default, the path to the Northwind database is C:\Program Files\Microsoft Office\Office\Samples.

Note

The default installation of Access does not install the sample Access databases. You may need to run Office Setup to install the Northwind database.

Robust Programming

The data access (the call to the `Fill` method) should take place within a **Try** block, and the associated **Finally** block should close the data connection (with the `Close` method). This structure promptly closes the database connection when an exception occurs.

The following condition may cause an exception:

- The underlying data provider for the OLE DB data source throws the error or warning. (`OleDbConnection` class)

Security

The application must have sufficient permissions to access the database.

See Also

Tasks

[How to: Read Excel Data into a Dataset \(Visual Basic\)](#)

[How to: Read SQL Data into a Dataset \(Visual Basic\)](#)

Reference

[Try...Catch...Finally Statement \(Visual Basic\)](#)
[DataSet](#)
[OleDbDataAdapter](#)
[OleDbConnection](#)

Other Resources

[Preparing Your Application to Receive Data](#)
[Editing Data in Your Application](#)

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